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1   **Fast detection of communication patterns in distributed executions**
Thomas Kunz, Michiel F. H. Seuren
November 1997   **Proceedings of the 1997 conference of the Centre for A**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)

    Understanding distributed applications is a tedious and difficult task. Visualizations based on pr
    very complex and do not provide the user with the desired overview of the application. In our e

2   **Courses: An introduction to sketch-based interfaces**
Joseph LaViola, Randall Davis, Takeo Igarashi
July 2006   **Material presented at the ACM SIGGRAPH 2006 confere**
Publisher: ACM Press
Full text available: 📄 pdf(31.58 MB)

    Sketch-based interfaces are a natural, pencil-and-paper-like approach to interacting with a var
    understanding systems. Attendees will learn how these interfaces are designed and how to dev

3   **Special issue on knowledge representation**
Ronald J. Brachman, Brian C. Smith
February 1980   **ACM SIGART Bulletin, Issue 70**
Publisher: ACM Press
Full text available: 📄 pdf(13.13 MB)

    In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a
    representation research, to illuminate the issues on which current research is focused, and to c

4   **Special issue: Game-playing programs: theory and practice**
M. A. Bramer
April 1982   **ACM SIGART Bulletin, Issue 80**
Publisher: ACM Press
Full text available: 📄 pdf(9.23 MB)   Additional Information

    This collection of articles has been brought together to provide SIGART members with an over\

5   Revised Report of the Algorithmic Language Algol 68
A. van Wijngaarden
August 1981 ALGOL Bulletin, Issue Sup 47
Publisher: Computer History Museum
Full text available: 📄 pdf(9.20 MB)   Additional Information: full citation, index terms

6   Networked sensor platforms: The particle computer system
Christian Decker, Albert Krohn, Michael Beigl, Tobias Zimmer
April 2005   Proceedings of the 4th international symposium on Inf
Publisher: IEEE Press
Full text available: 📄 pdf(369.90 KB)

This paper presents a sensor-based, networked embedded system, referred to as the Particle c
integrated systems package. The core design principles of the sensor nodes enable operation ir

Keywords: AwareCon, ConCom, file system, middleware-free architecture, particle computer,

7   The elements of nature: interactive and realistic techniques
Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Douç
August 2004   ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04
Publisher: ACM Press
Full text available: 📄 pdf(17.65 MB)

This updated course on simulating natural phenomena will cover the latest research and produ
natural phenomena. The course offers a nice balance of the latest interactive graphics hardwar

8   Conference abstracts
January 1977   Proceedings of the 5th annual ACM computer science c
Publisher: ACM Press
Full text available: 📄 pdf(3.14 MB)

One problem in computer program testing arises when errors are found and corrected after a p
modifications do not introduce new errors into the code. This model considers the retest philosi

9   Fast Prolog with an extended general purpose architecture
Bruce K. Holmer, Barton Sano, Michael Carlton, Peter Van Roy, Ralph Haygood, William R. Bush, .
May 1990   ACM SIGARCH Computer Architecture News , Proceedii
Publisher: ACM Press
Full text available: 📄 pdf(1.19 MB)

Most Prolog machines have been based on specialized architectures. Our goal is to start with a
implementations. We find that most Prolog specific operations can be done satisfactorily in soft

10   In-network processing: Capturing high-frequency phenomena using a bandwidth-limited s
Ben Greenstein, Christopher Mar, Alex Pesterev, Shahin Farshchi, Eddie Kohler, Jack Judy, Debor
October 2006   Proceedings of the 4th international conference on Em
Publisher: ACM Press
Full text available: 📄 pdf(853.96 KB)

Small-form-factor, low-power wireless sensors-motes-are convenient to deploy, but lack the ba
effects such as congestion, which makes them dynamic and unpredictable. Mote collection syst

Keywords: acoustics, health monitoring, motes, sensor networks, signal processing framewor

11   An Unclever Time-Sharing System
Caxton C. Foster
March 1971   **ACM Computing Surveys (CSUR)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(1.85 MB)

> This paper describes the internal structure of a time-sharing system in some detail. This syster
> simplicity, this system can serve as a useful introduction to the problems encountered by the d

12   Interactive Editing Systems: Part I
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(3.08 MB)   Additional Information: full citation, citings, index term

13   Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB)   Additional Information: full citation, references, citings

14   Conscientious software
Richard P. Gabriel, Ron Goldman
October 2006   **ACM SIGPLAN Notices , Proceedings of the 21st annual**
Publisher: ACM Press
Full text available: pdf(1.52 MB)

> Software needs to grow up and become responsible for itself and its own future by participatin
> how we write programs. A promising approach seems to be to separate software that does the

> **Keywords**: autopoiesis, continuous (re)design, emergence, feedback, repair, robustness, self-

15   XINIX time-sharing operating system
Jorge Buenabadd Chávez
October 1991   **ACM SIGOPS Operating Systems Review**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(837.89 KB)

> The availability of the source code of a running real operating system is essential for teaching a
> constraints of this transportation, named XINIX.

16   Parallel execution of prolog programs: a survey
Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001   **ACM Transactions on Programming Languages and Sys**
Publisher: ACM Press
Full text available: pdf(1.95 MB)

> Since the early days of logic programming, researchers in the field realized the potential for ex
> for obtaining speedups through parallel execution. At the same time, the fact that the typical a

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism

17   The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Publisher: MIT Press
Full text available: pdf(6.15 MB) Publisher Site   Additional Information: full citation

18   The nested rectangular array as a model of data
Trenchard More
May 1979   **ACM SIGAPL APL Quote Quad , Proceedings of the inte**
Publisher: ACM Press
Full text available: pdf(2.11 MB)

Data, like electricity and gravity, are part of the world in which we live. Some occur naturally, ¿ physics, economics, and psychology. Most models of data are collections, such as the unnestec

19   Columns: Risks to the public in computers and related systems
Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(3.24 MB)   Additional Information: full citation

20   A small operating system
Jerry Sayers
February 1990   **Proceedings of the 1990 ACM SIGSMALL/PC symposiui**
Publisher: ACM Press
Full text available: pdf(813.98 KB)

A multitasking operating system for an IBM PC or compatible has been developed to provide st bound processes. Although other such educational operating systems exist, this operating syst

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